

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P826501

Luminaire Tested: **OHBL-18HE-N-UNV-L830-CD-UPL18**

Issue Date: 5/3/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P826501  
REPORT IS A COMBINATION OF REPORTS P826158 AND G3-2310-221-8  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18HE-N-UNV-L830-CD-UPL18  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

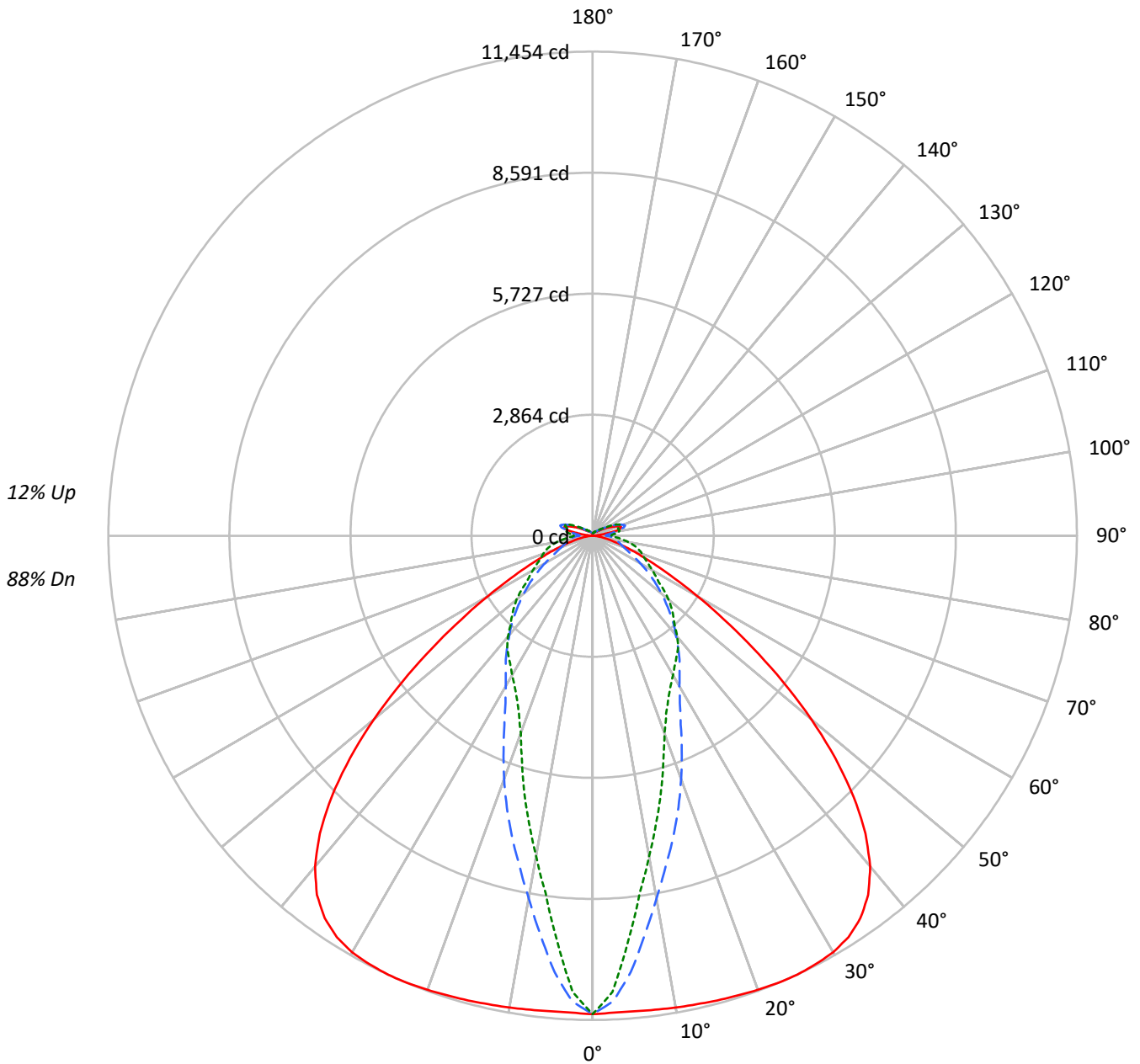
Lumens per Lamp: N/A  
Luminaire Lumens: 18366.3 lumens  
Efficiency: N/A  
Efficacy: 159.3 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')  
CIE Type: Semi-Direct

Input Watts (W): 115.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	107	102	98	95	103	99	95	92	92	90	87	87	84	82	81	79	78	75																			
2	98	91	85	79	94	88	82	77	82	78	74	77	74	70	73	70	67	65																			
3	90	81	74	68	87	78	72	66	74	68	64	70	65	61	66	62	59	56																			
4	84	73	65	59	80	71	63	58	67	61	56	63	58	54	60	55	52	49																			
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	55	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	49	43	39	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	41	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	39	34	44	37	33	42	36	32	40	35	31	30																			
10	56	43	36	31	54	42	36	31	41	34	30	39	33	30	37	32	29	27																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	19327	19327	19327
5°	19194	17600	16444
10°	19316	14825	13250
15°	19596	12679	10929
20°	20043	10721	8885
25°	20625	8874	7828
30°	21215	7645	7314
35°	21521	6967	7012
40°	21005	6293	6699
45°	19172	5687	6251
50°	16026	5025	5922
55°	12044	4401	5328
60°	8325	3774	5171
65°	5501	3251	5153
70°	3666	3051	5541
75°	2453	3146	6139
80°	1588	3485	6721
85°	817	4358	8013



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	952.5	5.2
10°-20°	2240.8	12.2
20°-30°	2808.8	15.3
30°-40°	2980.5	16.2
40°-50°	2694.8	14.7
50°-60°	1953.9	10.6
60°-70°	1226.2	6.7
70°-80°	811.4	4.4
80°-90°	471.6	2.6
90°-100°	385.8	2.1
100°-110°	709.7	3.9
110°-120°	571.9	3.1
120°-130°	275.0	1.5
130°-140°	135.5	0.7
140°-150°	77.9	0.4
150°-160°	43.8	0.2
160°-170°	20.0	0.1
170°-180°	6.1	0.0
0°-30°	6002.1	32.7
0°-40°	8982.6	48.9
0°-60°	13631.3	74.2
0°-90°	16140.6	87.9
90°-120°	1667.3	9.1
90°-150°	2155.8	11.7
90°-180°	2226.0	12.1
0°-180°	18366.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11316	11316	11316	11316	11316	
5°	11293	11003	10357	9877	9628	###
15°	11379	9275	7366	6551	6254	3227
25°	11454	7171	4932	4378	4239	5292
35°	11044	4768	3580	3468	3467	6866
45°	8731	3020	2594	2657	2702	6651
55°	4622	1872	1693	1836	1902	4176
65°	1653	1086	980	1256	1396	1720
75°	510	585	658	1022	1083	569
85°	89	242	481	670	615	107
90°	4	124	310	435	443	8
95°	40	147	366	489	527	115
105°	698	730	761	647	622	663
115°	489	516	603	627	630	493
125°	246	261	312	327	324	230
135°	148	153	172	189	190	117
145°	113	116	121	131	130	71
155°	93	98	100	102	100	42
165°	69	70	70	71	71	20
175°	62	62	63	63	63	6
180°	62	62	62	62	62	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	11315.6	11315.6	11315.6	11315.6	11315.6
2.5°	11291.9	11227.2	11025.9	10903.1	10799.7
5°	11292.9	11003.3	10357.1	9876.8	9628.0
7.5°	11309.1	10665.1	9501.0	8799.8	8526.3
10°	11333.9	10246.2	8701.8	7954.4	7699.1
12.5°	11352.2	9774.5	7998.6	7230.7	6950.7
15°	11379.1	9274.8	7366.4	6551.1	6253.9
17.5°	11404.0	8804.2	6741.8	5889.9	5559.2
20°	11428.7	8296.9	6117.1	5239.4	4966.9
22.5°	11452.3	7761.7	5507.6	4734.3	4548.0
25°	11454.5	7171.4	4932.5	4377.8	4238.9
27.5°	11426.6	6559.8	4466.1	4079.6	3993.4
30°	11378.1	5966.4	4104.3	3864.1	3802.7
32.5°	11257.5	5361.1	3824.3	3656.2	3620.7
35°	11044.2	4767.7	3579.8	3467.8	3466.7
37.5°	10708.2	4241.1	3314.9	3295.5	3319.2
40°	10211.7	3780.1	3063.9	3115.7	3115.7
42.5°	9549.4	3379.5	2836.7	2889.5	2875.5
45°	8730.9	3019.7	2594.4	2656.8	2702.1
47.5°	7782.1	2703.2	2346.7	2467.3	2529.8
50°	6750.3	2401.6	2120.6	2274.6	2345.7
52.5°	5669.1	2122.7	1899.7	2076.3	2133.5
55°	4622.3	1871.7	1693.0	1836.2	1901.9
57.5°	3674.6	1632.7	1490.5	1626.2	1761.9
60°	2859.3	1427.0	1299.9	1493.7	1629.4
62.5°	2184.1	1243.9	1121.1	1369.9	1505.5
65°	1653.1	1085.6	980.1	1255.7	1395.7
67.5°	1246.0	948.8	870.2	1172.8	1309.6
70°	935.9	816.4	781.9	1121.1	1243.9
72.5°	691.4	694.7	711.9	1075.9	1169.6
75°	510.5	584.8	658.0	1022.0	1083.4
77.5°	365.1	484.6	609.5	957.4	978.9
80°	253.1	395.2	559.0	872.3	854.1
82.5°	158.3	316.7	513.7	778.6	728.1
85°	89.4	242.3	481.4	669.9	614.9
87.5°	39.8	180.9	421.1	522.3	487.9
90°	3.7	124.5	310.5	434.9	442.9
92.5°	14.2	114.7	308.6	430.4	448.6
95°	39.6	147.4	365.6	489.3	526.7
97.5°	186.9	260.6	452.0	572.6	600.4
100°	380.5	448.7	541.6	630.6	647.0
102.5°	592.9	636.1	617.4	641.1	644.1
105°	698.2	730.4	761.3	647.3	622.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	571.0	600.5	687.4	708.1	690.1
115°	489.2	516.4	602.6	627.2	629.5
117.5°	419.6	438.5	516.8	542.0	543.9
120°	352.6	372.0	440.3	460.2	458.3
122.5°	296.8	313.7	372.2	387.8	384.8
125°	245.6	261.0	311.7	326.9	324.0
127.5°	209.1	219.6	263.5	277.7	274.8
130°	183.0	191.7	223.1	239.2	240.1
132.5°	164.3	169.3	194.2	210.2	212.1
135°	148.5	153.4	172.1	189.0	189.9
137.5°	136.4	142.4	154.8	170.6	171.5
140°	126.2	131.1	140.3	155.1	156.1
142.5°	118.8	122.7	129.8	141.5	142.5
145°	113.4	116.3	121.3	130.8	129.8
147.5°	106.9	110.9	113.9	121.1	120.0
150°	101.3	106.5	108.3	112.4	112.3
152.5°	97.6	101.8	103.7	106.7	105.6
155°	93.0	98.1	100.0	102.1	99.9
157.5°	77.2	78.2	79.1	80.0	80.0
160°	74.4	74.4	75.4	76.3	76.3
162.5°	71.7	71.7	72.6	73.5	73.5
165°	68.9	69.8	69.8	70.7	70.7
167.5°	67.0	67.0	67.9	67.9	68.9
170°	65.1	65.1	66.1	66.1	66.1
172.5°	63.3	64.2	64.2	64.2	64.2
175°	62.3	62.3	63.3	63.3	63.3
177.5°	61.4	62.3	62.3	62.3	62.3
180°	62.3	62.3	62.3	62.3	62.3



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	704.7	740.3	805.8	710.9	637.5
110°	647.1	684.7	766.7	750.7	694.0



(END OF REPORT)